

Attorney Docket: 381TO/41092RE
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HIROSHI ONISHI ET AL.
Serial No.: 09/064,765 Group Art Unit: 3661
Filed: APRIL 23, 1998 Examiner: M. Zanelli
Title: AUTOMATIC TRANSMISSION CONTROL SYSTEM FOR AN
AUTOMOBILE

Reissue of: U.S. PATENT 5,510,982

Issued: APRIL 23, 1996



INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.56

Assistant Commissioner for Patents
Washington, D.C. 20231

February 2, 2000

Sir:

This supplements the Information Disclosure Statement submitted in the above-identified application on June 30, 1999.

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

Applicant is unaware of the English translation of Japanese Patent Publication No. 2811348; however, an English translation of Claim 1 of said reference is submitted as follows:

Claim 1: A line pressure controlling apparatus in an automatic transmission, said automatic transmission having a torque converter provided between an output shaft of an engine and an input shaft of a gear transmission, and a lockup device which operates at a predetermined driving condition to mechanically connect an input side with an output side of said torque converter; said line pressure controlling apparatus comprising:

torque input revolution number detecting means for detecting an input revolution number of said torque converter;

torque output revolution number detection means for detecting an output revolution number of said torque converter;

in-take air flow amount detecting means for detecting an amount of air flow absorbed in said engine;

a first transmission input torque estimation means for estimating an input torque of said transmission on the basis of said input revolution number and said output revolution number;

a second transmission input torque estimation means for estimating an input torque of said

transmission on the basis of said amount of air flow taken in and said input revolution number;

lockup device operation detecting means for detecting whether said lockup device is operating or not;

target line pressure setting means for unlocked state for setting, when said lockup device is not operating, a target line pressure based on the transmission input torque estimated by said first transmission input torque estimation means;

deviation calculation and storing means for calculating a deviation between said transmission input torque estimated by said first transmission input torque estimation means and said transmission input torque estimated by said second transmission input torque estimation means and for storing a deviation thus calculated;

target line pressure setting means for lockup state for correcting, when said lockup device is operating, said transmission input torque estimated by said second transmission input torque presuming means on the basis of a stored value of said deviation and for setting a target line pressure on the basis of said corrected transmission input torque; and

line pressure control means for controlling a line pressure of said automatic transmission by driving a line pressure actuator on the basis of said target line pressure set by said target line pressure setting means for unlock state or said target line pressure setting means for lockup state.

Applicant notes that the publication date of the enclosed Japanese Patent Publication is January 13, 1992, which is after the priority date of the present application (December 3, 1991). Accordingly, in order to perfect the Claim of Priority, Applicant is obtaining, and will submit promptly an English-language translation of the priority document in order to perfect the Claim of Priority in this application.

The present Information Disclosure Statement is being filed after either a final Office Action or a Notice of Allowance, but before payment of the Issue Fee, and therefore Applicant is submitting herewith a check for the petition fee of \$130.00 under 37 C.F.R. §1.17(i)(1), a Statement Under 37 C.F.R. §1.97(e) and a Petition Under 37 C.F.R. §1.97(d).

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against

the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,



Gary R. Edwards
Registration No. 31,824

EVENSON, McKEOWN, EDWARDS
& LENAHAN, P.L.L.C.
1200 G Street, N.W., Suite 700
Washington, DC 20005
Telephone No.: (202) 628-8800
Facsimile No.: (202) 628-8844
GRE:kms